

METHOD AND SYSTEM FOR REDUCING POTENTIAL
INTERFERENCE IN AN IMPULSE RADIO

ABSTRACT OF THE DISCLOSURE

Potential interference is reduced in an impulse radio. A signal including an impulse signal and potential interference is received by the impulse radio. The impulse signal includes a sequence of impulses. The sequence of impulses of the received signal is sampled at a sequence of data sample times to produce a sequence of data samples. The received signal is also sampled at a plurality of time offsets from each of the data sample times to produce a plurality of nulling samples corresponding to each of the data samples. Each of the data samples is then separately combined with the corresponding plurality of nulling samples to produce a sequence of adjusted samples.